

CLAIMS

1. Coupling device for electrical coupling of a first thin-film photovoltaic cell (1) to a second thin-film photovoltaic cell (2, 3), characterized in that it comprises at least one magnetic pressing element (7) for
5 positioning electrical contact means on, and in electrical contact with, at least a part of respectively the first (1) and second cell (2, 3).

2. Coupling device as claimed in claim 1,
characterized in that the contact means comprise an
10 electrical conductor.

3. Coupling device as claimed in claim 1,
characterized in that the contact means comprise an electrically conductive layer (6) on respective co-acting edge zones of the first (1) and the second cell
15 (2, 3) for bringing the first (1) and the second cell (2, 3) into electrical contact in overlapping state of these edge zones.

4. Coupling device as claimed in claim 3,
characterized in that it comprises two co-acting
20 permanent magnetic pressing elements (7) for receiving therebetween in mutual electrical contact at least a part of the first (1) and second cell (2, 3).

5. Coupling device as claimed in claim 4,
characterized in that the magnetic pressing elements
25 comprise a layer of a permanent magnetic material on the respective co-acting edge zones of the first cell and the second cell.

6. Coupling device as claimed in claim 3,
characterized in that the at least one magnetic pressing
30 element comprises a layer of a permanent magnetic material on the first edge zone of the first cell, and the second cell is provided with a layer of a ferromagnetic material on the second edge zone.

7. Coupling device as claimed in claim 6,
35 characterized in that the second edge zone of the second

cell is the edge zone of a carrier foil containing a ferromagnetic material.

8. Coupling device as claimed in any of the claims 5-7, characterized in that the respective electrically
5 conducting layers (6) are provided on the respective layers of the permanent magnetic and the ferromagnetic material.

9. Coupling device as claimed in any of the claims 6-8, characterized in that the ferromagnetic material is
10 selected from the group of materials comprising iron (Fe), cobalt (Co) and nickel (Ni).

10. Coupling device as claimed in any of the claims 5-9, characterized in that the electrically conducting layer contains gold (Au).

15 11. Coupling device as claimed in any of the claims 1-10, characterized in that it is provided with locking means (8) for locking two cells (1, 2, 3) coupled to the coupling device against displacement in the direction of the plane of these cells.

20 12. Coupling device as claimed in claim 12, characterized in that the locking means comprise a locking pin (8) of an insulating material extending through co-acting openings formed in the at least one pressing element (7) and the first (1) and second cell
25 (2, 3).